BILL NO. 6 - ROADWORKS (Provisional)

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|---|---|---|---|---|---|---|
| **Filled surfaces left by Site Development Contractor** | | | | | | |
| Surfaces of granular fill material FORMATION | | | | | | |
| grading to falls and cross-falls; compacting with 8 tonne roller (if deemed necessary) | $M^2$ | 1353 | Incl | — | — | |
| **Filling** | | | | | | |
| Imported hardcore comprising granular fill material free from vegetable matter, clay or sand; depositing in layers 250 mm maximum thickness; compacting | | | | | | |
| filling to make up levels, over 250 mm thick (only required if Site Development Contractor leaves finished levels low) | $M^3$ | 677 | 4.76 | 3222 | 52 | ✓ |
| Surfaces of filling | | | | | | |
| grading to falls and cross-falls; compacting with 8 tonne roller (do.) FORMATION | $M^2$ | 1353 | 0.05 | 67 | 65 | ✓ |
| Granular Sub-base material type 2; depositing in layers 250 maximum thickness; compacting | | | | | | |
| filling to make up levels, over 250 mm thick | $M^3$ | 94 | 12.70 | 1193 | 80 | ✓ |
| filling to make up levels, 150 mm thick | $M^2$ | 1084 | 1.92 | 2081 | 28 | ✓ |
| Surfaces of filling | | | | | | |
| grading to falls and cross-falls; compacting with 8 tonne roller | $M^2$ | 1084 | 0.05 | 54 | 20 | ✓ |
| grading to falls and cross-falls; compacting with 2 tonne roller | $M^2$ | 269 | 0.05 | 13 | 45 | ✓ |
| Crushed rock roadbase | | | | | | |
| filling under roads, 200 mm thick | $M^2$ | 666 | 2.54 | 1691 | 64 | ✓ |
| filling under footpaths, 100 mm thick | $M^2$ | 269 | 1.27 | 341 | 63 | ✓ |
| filling under car park, 100 mm thick | $M^2$ | 418 | 1.27 | 530 | 86 | ✓ |
| Surfaces of filling | | | | | | |
| grading to falls and cross-falls; compacting with 8 tonne roller | $M^2$ | 418 | 0.10 | 41 | 80 | ✓ |
| grading to falls and cross-falls; blinding with quarry dust; compacting with 8 tonne roller | $M^2$ | 666 | 1.60 | 1065 | 60 | ✓ |
| grading to falls and cross-falls; blinding with quary dust; compacting with 2 tonne vibrating roller | $M^2$ | 269 | 1.60 | 430 | 40 | ✓ |
| | | | C/F | 10,734 | 83 | ✓ |

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| | | | | B/F 10,734 | 83 |
| **Surfacing; external** | | | | | |
| Dry-bound macadam; base course of 50 mm nominal size course aggregate, 75 mm thick rolled with an 8 tonne roller; wearing course of 5 mm nominal size fine aggregate, 25 mm thick rolled with an 8 tonne roller | | | | | |
| 100 mm thick overall thickness to car park, over 300 mm wide; to falls and cross-falls | $M^2$ | 418 | 2.48 | 1036 | 64 |
| Bitumen macadam; B.S.4987: 1973; two coats machine laid; base course of 40 mm nominal size aggregate, (Clause 2.2.4), 60 mm thick rolled with an 8 tonne roller; wearing course of 14 mm nominal size aggregate, (Clause 2.3.4), 40 mm thick, rolled with an 8 tonne roller | | | | | |
| 100 mm overall thickness to roadways, over 300 mm wide; to falls and cross-falls | $M^2$ | 666 | 7.00 | 4662 | 00 |
| extra; working tarmacadam to road gullies and manhole covers | No. | 11 | 1.10 | 12 | 10 |
| fair joint to flush edges of existing tarmacadam | M | 40 | 1.60 | 64 | 00 |
| Bitumen macadam B.S.4987: 1973; two coats; base course of 20 mm nominal dense bitumen macadam (Clause 2.2.6), 35 mm thick, rolled with a 2 tonne roller; wearing course of 6 mm nominal size medium textured wearing course (Clause 2.2.3), 15 mm thick, rolled with a 2 tonne roller | | | | | |
| 50 mm overall thickness to footways associated with roadways, over 300 mm wide; to falls and cross-falls | $M^2$ | 199 | 3.86 | 768 | 14 |
| 50 mm overall thickness to footways remote from roadways, over 300 mm wide; to falls and cross-falls | $M^2$ | 70 | 4.14 | 289 | 80 |
| extra; working tarmacadam to BT joint box, toby covers etc. | No. | 14 | 1.10 | 15 | 40 |
| fair joint to flushe edges of existing tarmacadam | M | 1 | 1.60 | 1 | 60 |
| **Concrete Work: Composite construction; approximate total of in-situ concrete - $m^3$** | | | | | |
| Plain in-situ concrete; mix type D | | | | | |
| in foundations; 400 x 100 mm, to kerbs; including excavations, disposal of spoil and temporary formwork | M | 6 | 2.40 | 14 | 40 |
| do.; 300 x 150 mm, do.; do. | M | 32 | 2.70 | 86 | 40 |
| | | | C/F £ | 17,685 | 31 |

| | | | | | | |
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| do.; 300 x 150 mm, do.; including excavations, disposal of spoil and temporary formwork to curve | | | B/F | 17,685 | 31 | ✓ |
| | M | 120 | 2.88 | 345 | 60 | ✓ |
| do.; 200 x 100 mm, do.; including excavations, disposal of spoil and temporary formwork | M | 320 | 1.20 | 384 | 00 | ✓ |
| Precast kerb to B.S. 340; in-situ concrete haunching; bedding and pointing in cement mortar | | | | | | |
| 225 x 125 mm do.; figure 5; laid on back | M | 6 | 4.98 | 29 | 88 | ✓ |
| 255 x 125 mm do.; figure 5; laid to line and levels | M | 132 | 4.98 | 657 | 36 | ✓ |
| 255 x 125 mm do.; figure 5; cast to circle radius 5 - 10 metres | M | 85 | 5.76 | 489 | 60 | ✓ |
| 255 x 125 mm do.; figure 5; cast to circle exceeding 10 metres | M | 35 | 5.76 | 201 | 60 | ✓ |
| 150 x 50 mm; figure 10; laid to line and levels | M | 230 | 3.65 | 839 | 50 | ✓ |
| Angles on kerbs | | | | | | |
| 255 x 125 mm kerb | No. | 34 | 0.80 | 27 | 20 | ✓ |
| 150 x 50 mm kerb | No. | 18 | 0.50 | 9 | 00 | ✓ |
| Ends on kerbs | | | | | | |
| 255 x 125 mm kerb | No. | 3 | 0.80 | 2 | 40 | ✓ |
| 150 x 50 mm kerb | No. | 6 | 0.50 | 3 | 00 | ✓ |
| Neat joining to existing kerbs | | | | | | |
| 255 x 125 mm kerb | No. | 1 | 0.50 | — | 50 | ✓ |
| 150 x 50 mm kerb | No. | 1 | 0.30 | — | 30 | ✓ |
| Timber Edging | | | | | | |
| Pressure impregnated timber | | | | | | |
| 150 mm diameter larch kerb, nailed with 75 mm nails to 75 x 75 x 600 mm long softwood pegs driven into ground at 1200 mm centres | M | 95 | 2.20 | 209 | 00 | ✓ |
| angles | No. | 6 | 0.30 | 1 | 80 | ✓ |
| ends | No. | 2 | 0.30 | — | 60 | ✓ |
| ROAD DRAINAGE | | | | | | |
| Pipe Trenches | | | | | | |
| Excavating trenches to receive pipes not exceeding 200 mm nominal size; grading bottoms; earthwork support; disposing of surplus excavated material off site | | | | | | |
| | | | C/F | [illegible] | | |

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| | | B/F | 20,886 | 65 | |
| excavations starting from filled level; filling in around pipe with 150 mm thick concrete bed and encasure; filling in with material arising from excavatons to remainder; compacting by mechanical punner in 150 mm thick layers; not exceeding 2 metres deep, average 1.00 metre deep | | | 202 | 50 | |
| | M | 75 | 2.70 | ~~202~~ ~~60~~ | |
| **Pipes and Accessories** | | | | | |
| SuperSleve system of plain-end vitrified clay pipes and fittings jointed by plastic couplings | | | 188 | 50 | |
| 100 mm pipework in trenches | M | 65 | 2.90 | ~~188~~ ~~60~~ | |
| 100 mm pipework in trenches; in runs not exceeding 3 metres (5 No.) | M | 10 | 3.20 | 32 | 00 |
| extra; 100 mm bends | No. | 11 | 4.10 | 45 | 10 |
| Hepworth polypropylene road gully | | | | | |
| PRG(P) Gully with PRG(LT) Traps, AD/SS150 adaptor and 150 to 100 mm taper pipe; 150 mm thick concrete (Grade D) base and surround | No. | 11 | 52.27 | 574 | 97 |
| Stanton cast iron gully grating and frame; B.S. 497: 1967; bedding on and including concrete sole over gullies | | | | | |
| GA2.325; size 533 x 475 x 75 mm deep | No. | 11 | 90.43 | 994 | 73 |
| **Sundries** | | | | | |
| Testing the drainage system | | | | | |
| as the work proceeds and on completion by water or smoke or air to the satisfaction of the Local Authority | | Sum | | 60 | 00 |
| Disposal of Water | | | | | |
| keeping the surface of the site and the excavations free from surface water | | Sum | | | |
| **SUNDRIES FOR ALL TRADES IN THE FOREGOING SECTIONS OF BILL NO. 6** | | | | | |
| **Plant** | | | | | |
| Bringing to and removing from site for | | | | | |
| excavation and earthwork<br>concrete work<br>floor, wall and ceiling finishings<br>drainage works | | Sum | | — | — |
| | | C/F | 22,934 | 45 | |